

TA-3000 Texture Analyzer

TA-3000 Texture Analyzer is applicable to the hardness, crispness, elasticity, chewiness, firmness, tenacity, fiber strength, adhesiveness, cohesiveness, yield point, ductility, resilience, gel strength and other performance tests of products in the industries of food, biological products, drugs, cosmetics and packaging materials. The equipment operation and data analysis are intelligent, simple, stable and fault free, especially suitable for in-depth research and basic teaching of food physical properties new product development, formula research and process conditions exploration of the enterprise and R&D center.

Features

- 10-inch touch screen operation, fashionable and convenient human-friendly interface;
- Embedded computer design, no need to prepare a separate PC and save cost.
- A variety of test items to meet different of applications' requirement;
- Applied high precision imported sensor, high precision and good repeatability of the force measurement system, and the sensor over load protection function;
- Multi axis positioning technology of precision ball screw can realize stepless speed control, and the motion drive system is stable and has high operation accuracy;
- High precision displacement sensor with automatic recognition and return function;
- Intelligent configurations such as motion mechanism limit protection, overload protection, automatic return, and power failure memory ensure the safety of users and the instrument itself;
- The real time test curve shows the change trend of force value, and can be used for single and group statistical analysis of test results;
- Embedded micro printer;
- Professional software can perform real-time display of test, data analysis and processing, and data storage;



Test Standards

The instrument comply with the multi-national standards: GB/T 28304-2012、GB/T 6783-2013、AACC (16-50) 、 AACC (74-09) 、 NY/T 1180-2006 、 SC/T 3702-2014 、 ASTM D1894-90 、 FINAT method..3.5.6.9.18.22、AFERA 4013,4015,5001,5004

Application

It is widely used in food, biological products, drugs, cosmetics, packaging materials and many other fields: It can be used for surimi strength test, eggshell strength test, meat tenderness test, meat water property test, gel strength test, essence burst bead test, fruit hardness test, plant stem strength test, wheat hardness test, feed hardness test, tea stem neck tenderness test, sweet corn hardness test, soil hardness test, starch drawing property test, pastille breaking strength test, pastille coating barrier property test Adhesion test of pastille film coating, friability test of granular agent, hardness test of column agent, bioadhesive agent test, etc

Technical Specification

Items	Parameter
Force Capacity	25kg; (0.5kg, 1kg, 3kg, 5kg、10kg、50kg optional)
Force Resolution	0.0001g
Test Speed	0 ~ 50 mm/s
Resolution of speed	0.001 mm/s
Travel	0 ~ 420 mm
Resolution of displacement	0.0001 mm
Data Acquisition Frequency	500 points/sec
Power	AC 220 V 50 Hz

Configuration

Standard configuration : Instrument 、 micro printer、 3 kinds of Fixtures

Optional: more than 300types of fixtures

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